(9)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: Estimate for Improvements to Roads and Drains at Ramachandrapura, Hanuman Layout, Patel Pillegowda Layout, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub

Estimated Cost: Rs: 70.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

8

Name of the work: **Estimate for Improvements to Roads and Drains at Ramachandrapura, Hanuman Layout, Patel Pillegowda Layout, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.**

			Estimate Cost:						7000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	RR School Road		1	500.00	1.00	1.00	500.00		
	Desilting of Drains		1	500.00	0.60	0.45	135.00		
	Culverts		2	6.00	2.00	1.20	28.80		
	Basic Rate	130.00					**663.80**	243.88	**161888.00**
	Area Weightage @ 6%	7.80							
	Sub Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**243.88**							
	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	Covering Slab		1	250.00		1.20	300.00		
	Basic Rate	105.00					**300.00**	111.30	**33390.00**
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**	Cum							
	Bottom Concrete								
	RR School Road		1	500.00	1.00	0.15	75.00		
	Repair of SSM Drain		1	500.00	0.60	0.15	45.00		
	Culverts		2	6.00	2.00	0.15	3.60		
	Basic Rate	5102.00					**123.60**	5408.12	**668444.00**
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9, PWD SR 2018-19**	Cum							
	SSM Drain Repair		2	117.00	0.45	0.60	126.36		
	Basic Rate	5483.00					**126.36**	5811.98	**734402.00**
	Area Weightage @ 6%	328.98							
	Total	**5811.98**							
	KSRB 15.1.3 Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 115 / Item No. 15.3, PWD SR 2018-19**	Sqm							
			2	500.00		0.90	900.00		
	Basic Rate	142.00					**900.00**	150.52	**135468.00**
	Area Weightage @ 6%	8.52							
	Total	**150.52**							
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**	Cum							
	Bottom Concrete								
	RR School Road		1	500.00	0.90	0.15	67.50		
	Culverts		2	6.00	1.80	0.20	4.32		
	Side Wall								
	RR School Road		2	500.00	0.15	0.60	180.00		
			2x2	6.00	0.30	0.90	6.48		
	Basic Rate	5444.00					**258.30**	5770.64	**1490556.00**
	Area Weightage @ 6%	326.64							
	Total	**5770.64**							
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**	Tonne							
	For RCC Drain @ 60 Kg / Cum		0.07	258.30			**18.08**	75223.96	**1360124.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19**	Sqm							
	Side Wall								
	RR School Road		1x4	500.00		0.60	1200.00		
			2x4	6.00		0.90	43.20		
	Basic Rate	358.00					**1243.20**	379.48	**471770.00**
	Area Weightage @ 6%	21.48							
	Total	**379.48**							
6	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	For Covering Slab								
	RR School Road		1	500.00		0.90	450.00		
	Damaged Portion		1	200.00		1.20	240.00		
	Basic Rate	700.00		700.00			**690.00**	742.00	**511980.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			1167	3.00			**3500.00**	61.48	**215180.00**
	Basic Rate	58.00							
	Area Weightage @ 6%	3.48							
	Total	**61.48**							
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19**	Cum							
	Covering Slab Ramp								
	RR School Road		1	500.00	0.30	0.10	15.00		
			2	500.00	0.45	0.10	45.00		
	Covering Slab Ramp		2x2	6.00	1.15	0.15	4.14		
	Basic Rate	5422.00					**64.14**	5747.32	**368633.00**
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
8	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2x10	1.50	0.60		18.00		
							18.00	5418.00	**97524.00**
	Sub Total								**6249359.00**
	GST 12%								**749923.00**
	Miscellaneous and other Charges	L/S							**718.00**
								Total	**7000000.00**
Rupees Seventy Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under Special Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 70.00 Lakhs. Seventy Lakhs
Head of A/c. P.3603 Special Development work
Div. Ref. No. 52/19-20 Date 24-10-19
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs.70 lakhs already
Head of A/C. 12.3603.
CER NO :.1.00..... Dt:23.10.2019
TA. CE (YNK).

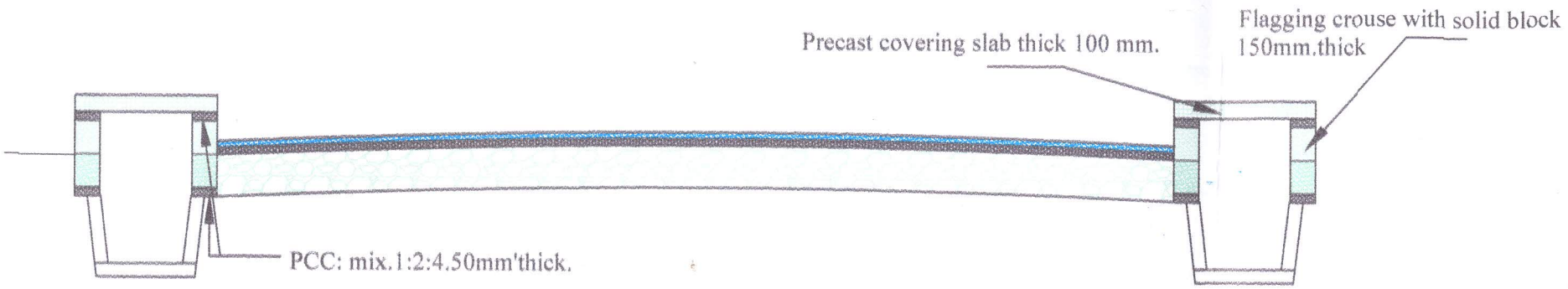
Name of work: Improvements to Roads and Drains at Ramachandrapura, Hanuman Layout, Patel Pillegowda Layout, Ramanna Garden and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

(4)

Sunetha-N R
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

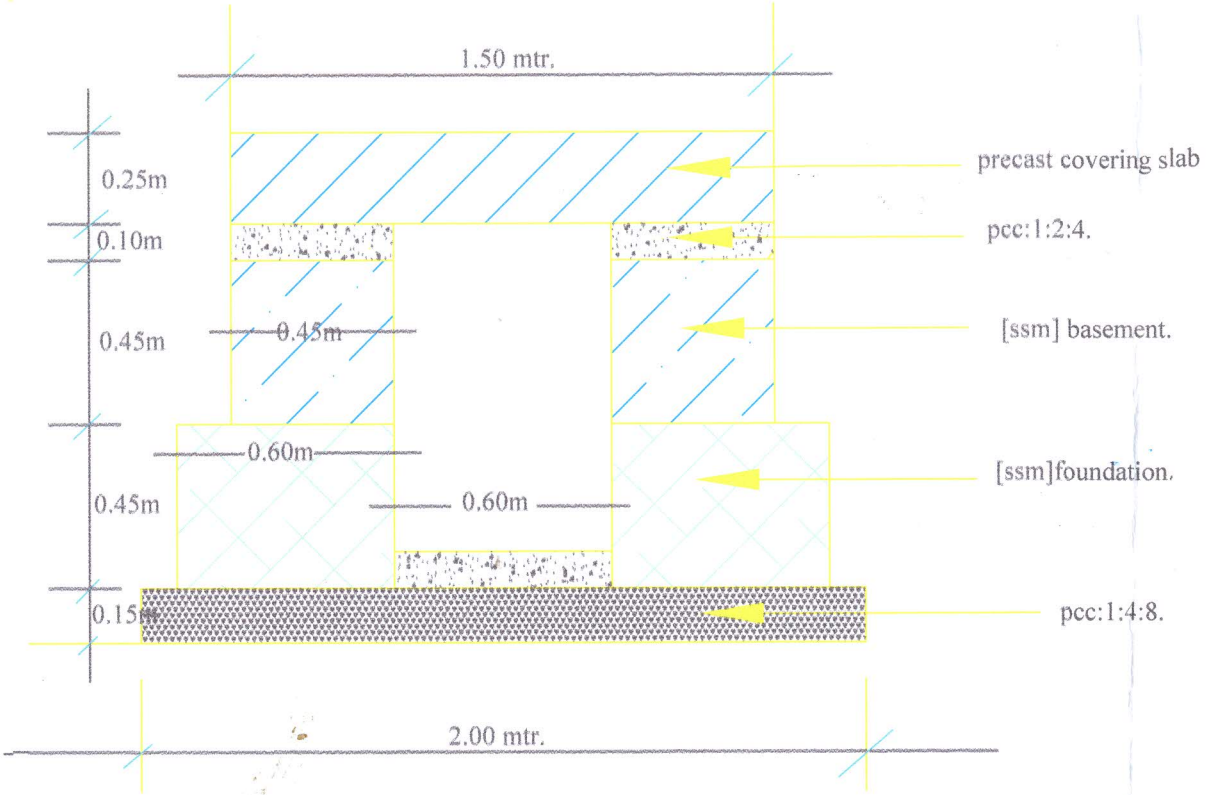
(5)



CROSS SECTION OF SOLID BLOCK FLAGGING COURCE OVER B S SLAB DRAIN.

Sweetha-N K

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97



CROSS SECTION OF CULVERT

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE ENGINEER.

Assistant Executive Engineer
Vidyaranyapura Sub Division.
BBMP, Bangalore - 97